

Subcommittee on Spatial Water Data

Meeting Details:

Date/Time: September 23, 2016, 1:00 - 3:00 PM Eastern Time

Location: Teleconference only (administered from USGS Headquarters, 12201 Sunrise Valley Drive, Reston, VA 20192)

Conference Line: 703-648-4848

From non-DOI locations, dial toll free 855-547-8255

Conference code 1712-0464#

JOIN WEBEX MEETING

When it is time to attend the meeting, please visit this link:

<https://usgs.webex.com/usgs/j.php?MTID=m9d6f264cf4268301448e8625ad8ea6a8>

Meeting number: 716 325 658

Shared document space:

<https://drive.google.com/open?id=0B877MDsx9pIFTmpocGE1d0M4TVE&authuser=0>

Agenda

All Times Eastern Time Zone

1:00 - 1:10 Introductions for new attendees

1:10 - 1:40 Reclamation Water Information System - Angela Adams

1:40 - 2:10 NASA Water Data Programs - Brad Doorn

2:10 - 2:40 Climate Engine Overview - Justin Huntington

2:40 - 2:55 Work Group Reports, New Issues

2:55 - 3:00 Adjourn

Attendees:

New (did not attend 8/28/14 or later meeting)

Jon Rocha, Reclamation, jrocha@usbr.gov

Jim Nagode, Reclamation, JBNagode@usbr.gov

Zubayed Rakib, WSWC, zubayed.rakib@gmail.com

Returning (attended 8/28/14 or later meeting)

Al Rea, USGS, ahrea@usgs.gov

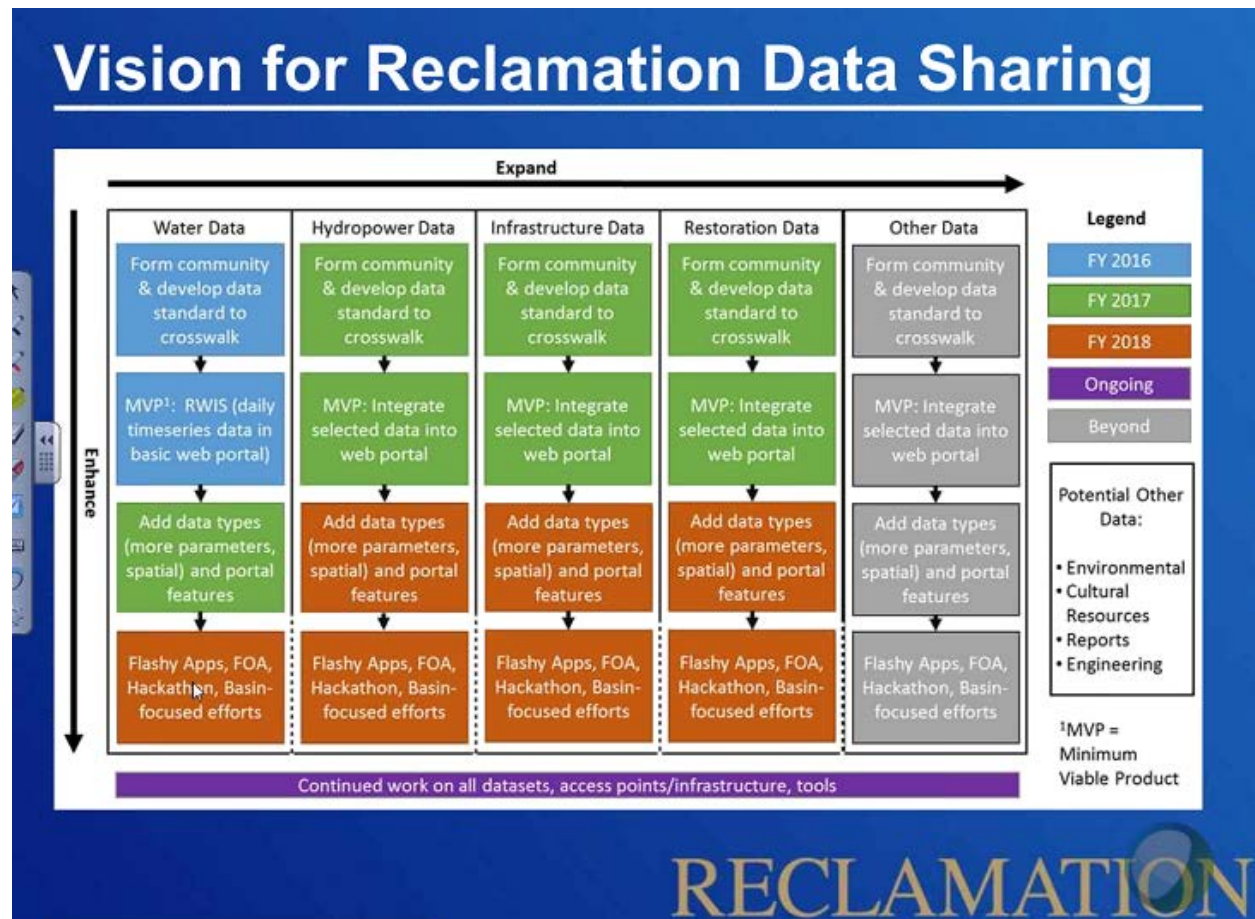
Sara Larsen, WSWC, saralarsen@wswc.utah.gov

Angela Adams, Reclamation, aadams@usbr.gov

Allison Danner, Reclamation, adanner@usbr.gov
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Steve Aichele, USGS, saichele@usgs.gov
Wendy Blake-Coleman, EPA, Blake-Coleman.Wendy@epa.gov

Items of interest:

1:10 - 1:40 Reclamation Water Information System - Angela Adams



Wendy B-C Commonality to other efforts, USDA, EPA

White House Open Data Innovation Summit September 28 - RSVP today - invitation

Registration is now open for the White House Open Data Innovation Summit September 28 in Washington, D.C.: <https://www.eventbrite.com/e/the-white-house-open-data-innovation-summit-tickets-27474029562>

Event is free and open to the public, yet space is limited to please RSVP ASAP to reserve your space. Please forward and share widely, as invitation is transferable and sharable. Invited speakers and exhibitors will receive a separate invitation -- this invitation is for Summit attendees.

Hope you will join us at the White House Open Data Innovation Summit September 28 in Washington, D.C.!

Summit info at: <https://www.data.gov/event/white-house-open-data-innovation-summit/>

Questions? Please email: WHOpenData@gsa.gov

Dwane Young (EPA) - Sensor Observations Service 2 standard? WaterML2 is a subset of this. Critical component. Data shared using SOS could then be brought into NLDI.

Contact RWIS Team: rwis@usbr.gov

1:40 - 2:10 NASA Water Data Programs - Brad Doorn



The slide is titled "Water Resources Applied Research" and features the NASA logo in the top right corner. It contains a descriptive paragraph about the program's goals, a list of recent solicitations, and a table of project examples.

Water Resources Applied Research

The Water Resources program addresses concerns and decision processes that are related to water availability, water forecasts, and water quality. The goal of the Water Resources theme is to apply NASA satellite data to improve the Decision Support Tools (DSTs) of user groups that manage water resources. The Water Resources theme partners with Federal agencies, academia, private firms, and international organizations.

RECENT SOLICITATIONS

- ROSES 2011 – Drought
 - ✓ 9 Projects (\$9M over 3 years)
- ROSES 2013 – In-Season Forecasting of Water Resource Anomalies
 - ✓ 9 Projects (\$12M over 4 years)
- ROSES 2016 – Water Quality and Agriculture Water Use
 - ✓ Awards expected Dec 2016 (\$9M over 3 years)

Examples of Water Resources Projects

| PARTNER | APPLIED WATER INFO |
|-----------------------------------|--------------------------|
| State of California | Ag Water Use |
| Colorado Basin River Forecast Ctr | Snow Water Equivalent |
| US Drought Monitor | Ground Water Estimates |
| USDA | Soil Moisture Indicators |
| G20 Ag Ministers | Crop Yield Monitoring |
| Raleigh, NYC, and Denver | Water Quality Indicators |
| NOAA-NESDIS | Flash Drought Triggers |
| USDA, US Foreign Services | Global Reservoir Hts. |

Presentation slides are available [here](#).

SWOT 2021 - can measure major river heights

Who's the POC for the Western Water Applications Office? -- Randy Friedl

2:10 - 2:40 Climate Engine Overview - Justin Huntington

Presentation slides are available [here](#).

2:40 - 2:55 Work Group Reports

Following are work group reports covering the period Oct 1, 2015 - Sept 30, 2016

Drought Use Case

- **2016 Goal 1**
 - **Drought Data Catalog.** Create a publicly-accessible **catalog of drought-related datasets** of high-value to data-users. The catalog will include and display

information about the datasets and their degree of openness and accessibility. Publicize the catalog and its datasets when the catalog is available. Work within the framework of the [National Drought Resilience Partnership Action Plan](#) to support Goal 1: Data Collection and Integration.

- **Status:** Work has been focused on making Reclamation water datasets open and accessible; considering several options for hosting data and a hackathon timed with the catalog release. Team activities are paused pending additional resources from participating team organizations.
- **2016 Goal 2**
 - Develop a **Spanish-language version of the Colorado River Basin Drought Visualization**. Translation of record completed by International Boundary and Water Commission, approved by U.S. and Mexico sections. Translations, including unit conversions to metric, completed and staged for release, available for preview on DOI network here: <https://cida-test.er.usgs.gov/bluedragon/dev/es/>.
 - **Status:** On target to release concurrent with finalization of Minute 32X (likely late CY2016).

Water Use Work Group

- **2016 Goal 1**
 - **Summary:** Survey water use data known to exist and report findings.
 - **Status:** Complete. [Findings and recommendations](#) delivered to OWDI and USGS WAUSP.
- **2016 Goal 2**
 - **Summary:** Compile dataset list in a catalog accessible to the community to show how open water use datasets are.
 - **Status:** Complete. [App. ScienceBase](#).

Network Linked Data Index (NLDI)

- **2016 Goal 1**
 - **Summary:** Incorporate EPA Watershed Assessment Tracking and Environmental Reporting System network navigation code into an open source OWDI community project with new web services code. Use software development best practices for open-source collaboration as much as possible.
 - **Status: Complete.** Four repositories in [github](#). Built and tested with [Travis Continuous Integration](#). Issue tracking with GitHub issues.
- **2016 Goal 2**
 - **Summary:** Build a complete minimum viable product that demonstrates the utility of the NLDI system.
 - **Status:** Complete. Network navigation pre-filter available in the [Water Quality Portal](#).

NHDPlus Data Working Group

- **2016 Goal 1**
 - **Summary:** Gather feedback from users of V1 National Seamless NHDPlus dataset and develop revised schema for V2 National Seamless NHDPlus.
 - **Status:** Complete. Dropped some of the less useful intermediate flow estimate fields. Included monthly mean flows. Other minor changes.

- **2016 Goal 2**
 - **Summary:** Release V2 of National Seamless NHDPlus geodatabase using revised schema. Include as part of regular NHDPlus distribution on EPA web site.
 - **Status:** Complete. National Seamless geodatabase and documentation is available from <https://www.epa.gov/waterdata/nhdplus-national-data>.

Spill Response Use Case

- **2016 Goal 1**
 - **Summary:** Provide a forum for discussion of spill preparedness issues. Identify datasets and stakeholders ultimately needed to develop time-of-travel, spill incident response models that can be implemented over the web.
 - **Status:** Ongoing. USGS received DOI funding to set up web services to support oil-spill preparedness. Lake volume estimates are being used to improve travel time models for lakes.
- **2016 Goal 2**
 - **Summary:** Provided a summary report that identified the key datasets that are needed for contaminant spill modeling. The report highlights:
 - NHDPlus
 - Stream Flow – Measured and Forecasted
 - Drinking Water Intakes
 - Municipal/Industrial Dischargers
 - HAZMAT Sites
 - Contaminant Databases
 - Databases for Surface Runoff
 - Homeland Security Infrastructure Protection GOLD Datasets.
 - **Status:** Submitted to the Spill Response Work Group. The report also discusses two contaminant spill case studies: West Virginia chemical spill and Gold King mine spill in Colorado.

National Flood Interoperability Use (NFIE) Use Case

- **INACTIVE in 2016? YES -- this was not a Use Case after the geospatial framework development in 2015. If you want a blurb on the operational implementation of the National Water Model that speaks to the geospatial framework proposed, developed and agreed upon by the OWD, I can do that. -epc**

JAWRA Issue

Next meeting:

October 28, 2016, at 1:00 pm Eastern Time.

Aquatic Ecology Use Case discussion

National Water Model Update